

IWA Small Systems Specialist Group Challenges and opportunities

**IWA conference on small systems
Opening Session at Athens
September 2016**



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Millennium Development Goals

In September 2000 all the 191 Member Countries of the United Nations pledged for all the Millennium Development goals. There were 8 specific goals.



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Goal Number 7:

To achieve environmental sustainability.

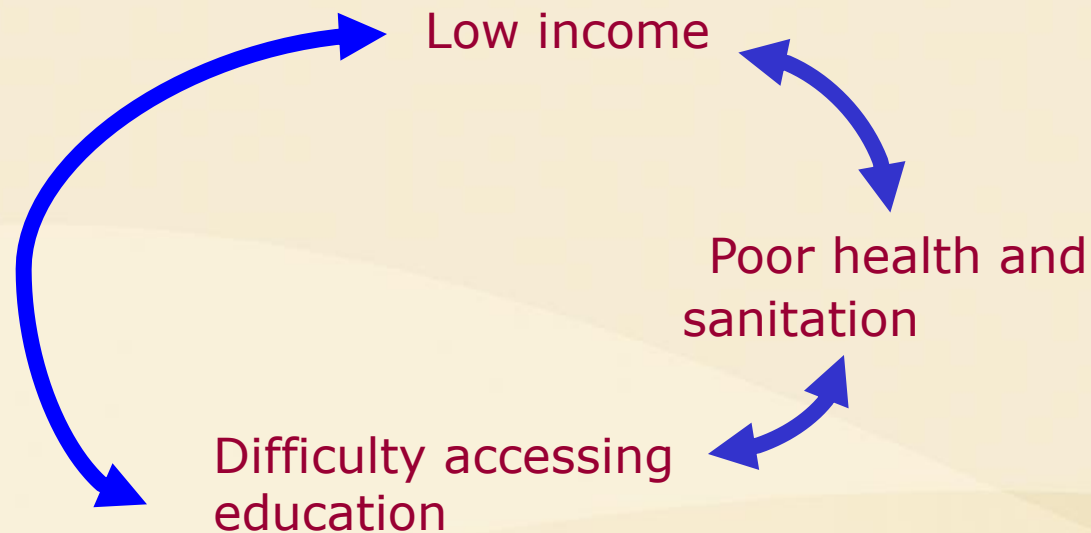
The aim is to reduce half the population of people without access to safe drinking water and sustainable sanitation.

This is an essential condition to reduce poverty.



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The Poverty Cycle

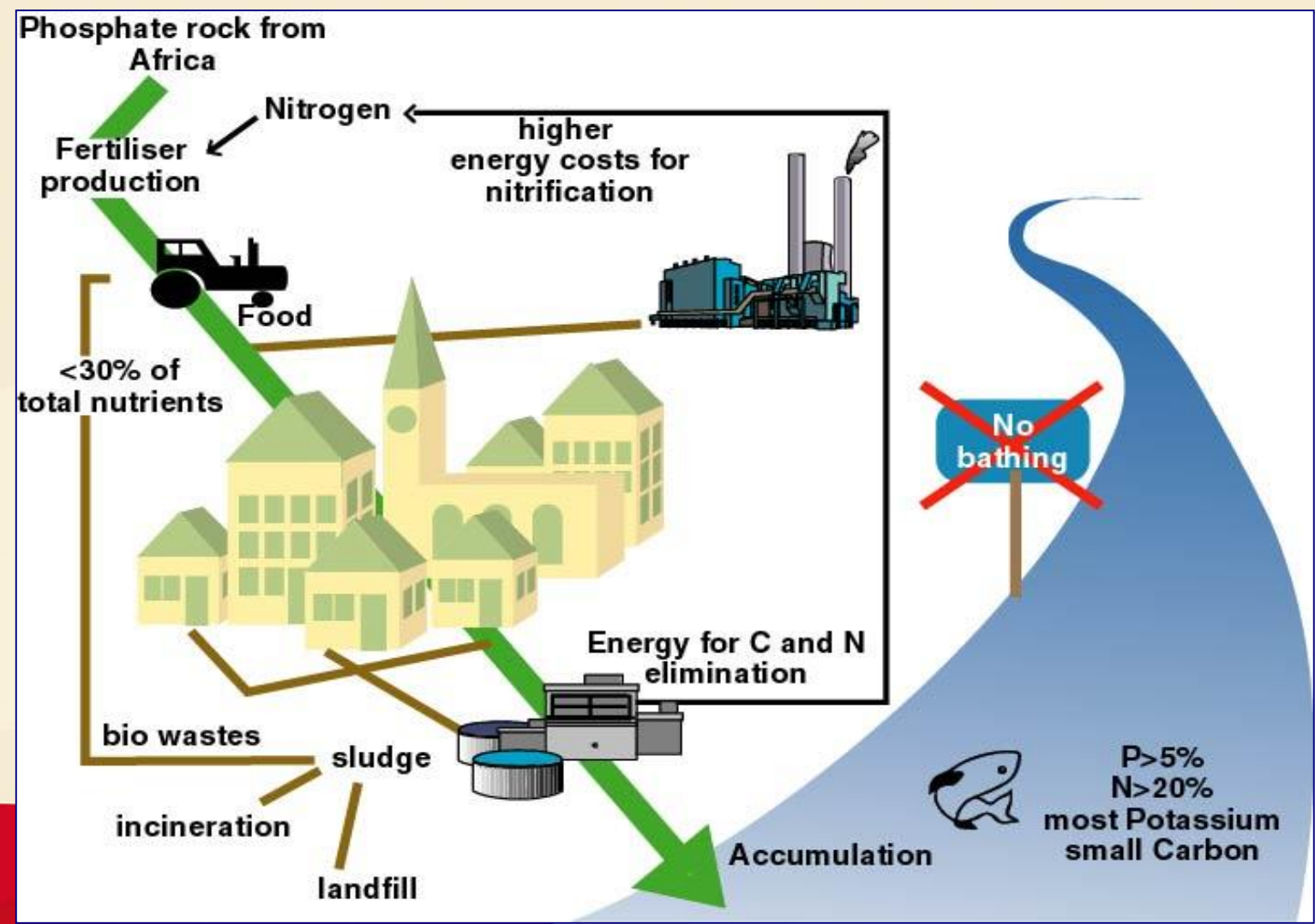


To break the poverty cycle by addressing health, education and income is important.

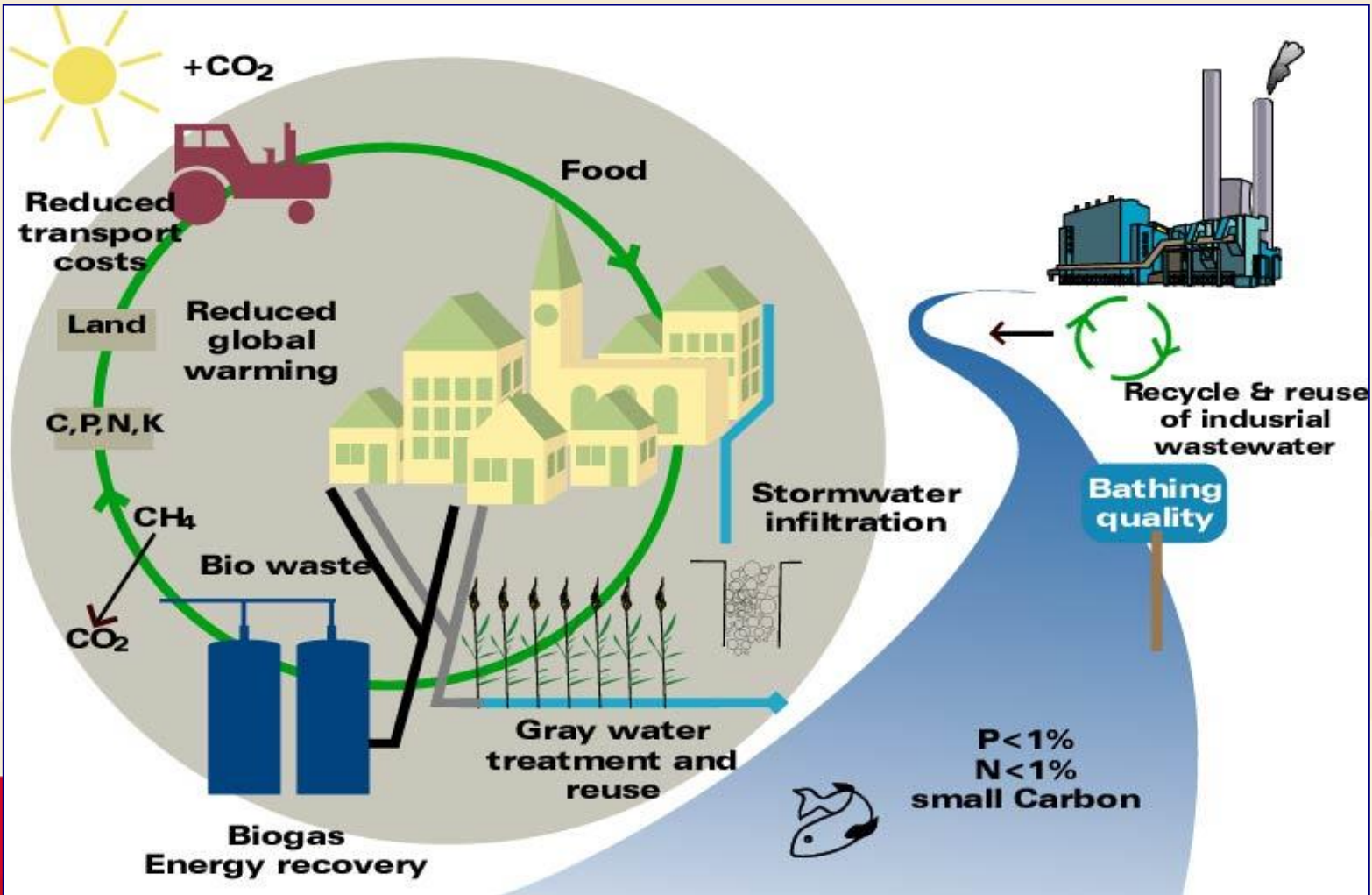


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Current Urban Water Management



Integrated Urban Water Management



Achievement of MDG:

- Between 1990 and 2012,
- 2.3 billion people gained access to improved drinking water sources.
- 1.5 billion has gained access to improved sanitation, yet one billion people still resort to open defecation at the end of the project.



Condition in 2012:

- 748 million people remained without access to an improved source of drinking water.
- Despite progress, 2.5 billion in developing countries still lack access to improved sanitation facilities at the end of the project.



Present situation:

- 663 million people being denied their right to clean water.
- 946 million people are left with no other choice but to go to the toilet out in the open.



UN - Sustainable Development Goals

- At present, the UN work on the sustainable development goals. There are 17 goals.
- The aim is to completely irradiate poverty, and hunger.
- To make sure, all the people in the world get access to clean drinking water and safe sanitation.



CONCLUSION

- Even though there are great achievements, the present demand is still big and significant.
- A deep sewer system is not the only way of wastewater disposal
- A deep sewer system is costly to adopt for the whole world
- New technology for localised treatment is available
 - Reuse of effluent is possible
 - Nutrient removal or use is possible
 - Avoids pollution of receiving waters
- **Decentralised systems are the only way to meet the demand of the need of the people all over the world for this generation.**

